



Annual Progress Report

(January-2021 to December-2021)



Senior Scientist & Head
Krishi Vigyan Kendra
Junagadh Agricultural University
Khapat - 360 579
Porbandar (Gujarat)

Contents

Sr No	Topic	Page No
1	General information of KVK	1
2	Detail of the district	5
3	Technical achievements	9
4	Details of On-Farm Trials	10
5	Front Line Demonstrations	16
6	Training Programmes	
	I. On campus training	24
	II. Off campus training	28
	III. Rural youth	35
	IV. Extension functionaries	38
	V. Sponsored training	40
7	Extension programmes	42
8	Production of seed/ planting materials	43
9	Literature developed/ published	44
10	Success stories/ case studies	44
11	Performance of infrastructure	52
12	Financial performance	54
13	Other special programmes	57
14	APR summery	61

ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2021
 (January 2021 to December 2021)

1. GENERAL INFORMATION ABOUT THE KVK**1.1. Name and address of KVK with phone, fax and e-mail**

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
	Office	FAX		
Krishi Vigyan Kendra Junagadh Agricultural University Opp. Saint Joseph School, Adityana Road Khapat – Porbandar – 360 579 (Gujarat)	94089 03062	-	kvk_khapat@yahoo.co.in kvkkhapat@jau.in	-

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website address
	Office	FAX		
Junagadh Agricultural University Junagadh – 362 001 (Gujarat)	0285-2671784 0285-2672080-90	0285-2672004 0285-2672653	-	www.jau.in

1.3. Name of the Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. H.R.Vadar	94089 03062	094265 43628	hrvadar@jau.in

1.4. Date and Year of sanction: February, 2005**1.5. Staff Position (as on December, 2021)**

Sl. No	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Current Grade Pay		
1	Senior Scientist and Head (I/C)	Dr. H.R. Vadar	9426543628	Soil & Water Engineering	131400-217100	-	01-07-2021	-
2	Scientist	Mrs. D.S. Thakar	9909927399	Home Sci.	68900-205500	-	22-08-2006	-
3	Scientist	Dr. H.A. Patel	9998687479	Animal Hus.	57700-182400	-	06-04-2015	-

4	Scientist	Mr.V.M. Savaliya	9909989754	Horticulture	57700-182400	-	01-08-2017	-
5	Scientist	Dr. H.N. Der	9727428242	Agronomy	57700-182400	-	01-09-2020	-
6	Scientist	Vacant	-	-	-	-	-	-
7	Scientist	Vacant	-	-	-	-	-	-
8	Programme Assistant (Lab. Tech.)	Mr.D.N. Hadiya	8238757002	Genetics & Plant Breeding	38090 (Fix)	-	07-08-2018	-
9	Programme Assistant (Computer)	Mr.J.J. Naliyapara	9998698063	-	39900-126600	-	12-06-2008	-
10	Farm Manager	Mr.A.M. Gamit	6354032874	Genetics & Plant Breeding	38090 (Fix)	-	02-08-2018	-
11	Assistant	Mr.B.S. Bokhariya	9265795997	-	39900-126600	-	12-06-2008	-
12	Stenographer	Vacant	-	-	-	-	-	-
13	Driver 1	Vacant	-	-	-	-	-	-
14	Driver 2	Vacant	-	-	-	-	-	-
15	Supporting staff 1	Vacant	-	-	-	-	-	-
16	Supporting staff 2	Vacant	-	-	-	-	-	-

1.6. Total land with KVK (in ha): 20.59

S. No.	Item	Area (ha)
1	Under Buildings	2.451
2	Under Demonstration Units	0.337
3	Under Crops	14.660
4	Horticulture	2.798
5	Pond	0.344
6	Others if any (Specify)	-
Total		20.59

1.7. Infrastructural Development

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Completion Year	Complete Plinth area (Sq. m)	Expenditure (Rs.)	Incomplete Starting year	Incomplete Plinth area (Sq. m)	Status of construction
1	Administrative Building	ICAR	2007	588	30,78,850	-	-	Completed

2	Farmers Hostel	ICAR	2008	288	21,02,300	-	-	Completed
3	Staff Quarters (6)	ICAR	2007	446	28,38,616	-	-	Completed
4	Demonstration Units (2)	ICAR	2017	-	-	-	-	Completed
5	Fencing	ICAR	2009	500 RM	-	-	-	Completed
6	Rain Water harvesting system	ICAR	2009	-	10,00,000	-	-	Completed
7	Threshing floor	-	-	-	-	-	-	Completed
8	Farm godown	ICAR	2009	129	-	-	-	Completed
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Tractor (Farmtrac)	2005	3,80,000	60500 hrs	Medium
Scorpio Jeep	2017	11,86,893	61025	Good
Moror cycle (Hero – Splendor)	2010	47,000	30014	Good

C) Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
LCD projector	2008-09	1,00,000	Running
Zerox machine	2008-09	1,24,000	Running
R.O. plant	2008-09	24,450	Running
HCL laptop computer	2008-09	47,500	Damaged
Food processor	2008-09	5,495	Running
Multipurpose bullock drawn pipe frame implement head peace	2008-09	27,500	Running
Rotavator tractor operated	2008-09	96,000	Running
Planter tractor operated	2008-09	44,000	Running
Tractor drawn harrow cum cultivator cum intercultivator frame 86"	2008-09	37,500	Running
Samsung double door refrigerator	2008-09	17,650	Running
Electrolux grill microwave / oven	2008-09	9,580	Running
Panasonic LCD projector	2008-09	1,03,912	Running
Multipurpose groundnut cum wheat thresher	2008-09	1,14,000	Running
Cotton shredder	2008-09	2,42,000	Running
Solar street light	2008-09	28,000	Running
Solar lanterns	2008-09	4,800	Running
Solar cooker	2008-09	3,300	Running

Mobile seed grading unit	2008-09	16,85,000	Running
Decorticators	2008-09	95,850	Running
Winnowing fan	2008-09	8,500	Running
Chaff cutter	2008-09	30,188	Running
High tech sprayer pump	2008-09	1,850	Running

1.8. Details of SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken
17 th February, 2021	Dr. V. P. Chovatia Hon'ble Vice Chancellor & Director of Research, JAU, Junagadh	By Hon'ble Vice Chancellor <ul style="list-style-type: none"> ➤ Conclude ongoing OFT of plant protection ➤ Use specific words in training of value addition of agricultural products ➤ Use fortified variety of pearl millet as an ingredient in the training of bakery products ➤ Mentioned total cost of proposed OFT instead of cost per beneficiary ➤ Take FLD on MDP in cluster base ➤ Increase soil sample testing and trainings related to soil testing <ul style="list-style-type: none"> ➤ Take yield observation properly ➤ Aware farmers about new pests & diseases <ul style="list-style-type: none"> ➤ Register farmer's variety in PPV & FRA By Director of Extension Education <ul style="list-style-type: none"> ➤ Maintain training and FLD register properly ➤ Include engineering & technology related training ➤ Regular update webpage of KVK By Director, DGR <ul style="list-style-type: none"> ➤ Add aflarot causing microbes population counts (CFU) in proposed OFT of plant protection 	<ul style="list-style-type: none"> ➤ The same was concluded ➤ The same was mentioned in the trainings ➤ The same was used as an ingredient in the training ➤ The suggestion was incorporated for future reports ➤ The same was taken as a cluster ➤ Two trainings related to soil health is included and conducted during the year ➤ Three Trainings on soil health was also conducted as a guest lectures ➤ The observations were taken properly ➤ Farmers were aware about the new pests & diseases in every training of plant protection ➤ It was not became possible till date <ul style="list-style-type: none"> ➤ Both the registers were maintain properly ➤ Two trainings were imparted ➤ The same was updated quarterly on regular basis <ul style="list-style-type: none"> ➤ Microbes population counts (CFU) in soil was added in observation
	Dr. H. M. Gajipara Director of Extension Education, JAU, Junagadh		
	Dr. R. K. Odedra I/C Senior Scientist & Head, KVK, JAU, Khapat-Porbandar		
	Dr. K. K. Pal Director, Directorate of Groundnut Research, Junagadh		
	Shri J. N. Parmar District Agricultural Officer, Porbandar		
	Shri S. B. Kunadiya Dy. Director of Animal Husbandry, Porbandar		
	Shri R. S. Gohel Deputy Director Agriculture (Training), FTC, Porbandar		
	Shri N. D. Babariya Deputy Director Agriculture (Extension), Porbandar		
	Shri M. S. Parsania Rep. Deputy Director (Horticulture), Porbandar		
	Shri Arvindbhai Chavda Dy. Project Director, ATMA, Porbandar		

Shri Jadav Saheb RFO, Porbandar		
Shri Amitkumar V. Vajar Manager, Lead Bank, Porbandar		
Shri H. M. Jadav General Manager, District Industries Center of District, Porbandar		
Shri Murubhai Bhimabhai Godhaniya At: Advana; Ta. & Dist. Porbandar		
Kum. Minaxi Dayalal Teriya At: Palakhada; Ta: Porbandar; Dist. Porbandar		
Shri Nagabhai Devabhai Sundavadra At: Degam; Ta: & Dist. Porbandar		
Shri Hasmukhbhai M. Chavda At: Gokran; Ta-Kutiyana; Di- Porbandar		

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

2.1. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Rainfed Farming System
2	Animal husbandry (Cattle/Bufalos)

2.2. Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

a) Soil type

S. No.	Agro-climatic Zone	Characteristics
1	South Saurashtra	<p>Porbandar district is located between 21° to 22° N latitude and 69° to 70° E longitude.</p> <p>Khapat- N 21° 40' 12" and E 69° 37' 14"</p> <p>Soil: medium black & silty loam with calcareous in nature</p> <p>pH: pH of the soil is ranging from 8.01 to 8.58</p> <p>Water: EC value up to 8.1 mmho / cm</p> <p>Average Rainfall: 668 mm</p> <p>Temperature Range: 12.0° C to 39.0 °C</p>

b) Topography

S. No.	Agro ecological situation	Characteristics
1	Shallow black soil with low rainfall	Soil: Sandy clay loam to clay with Rainfall: <750 mm
2	Hilly soil with low rainfall	Soil: Sandy clay loam to sandy clay with Rainfall: <750 mm
3	Medium black soil with low rainfall	Soil: Sandy clay to clay with Rainfall: <750 mm
4	Deep black soil with low rainfall (Ghed)	Soil: clay with Rainfall: <750 mm
5	Mix red & black soil with medium rainfall	Soil: Sandy clay loam to clay loam with Rainfall: 750-1000 mm

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy clay loam to clay	Rainfall: <750 mm	34241
2	Sandy clay loam to sandy clay	Rainfall: <750 mm	46080
3	Sandy clay to clay	Rainfall: <750 mm	86627
4	Clay	Rainfall: <750 mm	56880
5	Sandy clay loam to clay loam	Rainfall: 750-1000 mm	5707

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2021)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q/ha)
1	Groundnut	91,600	1,16,973	12.77
2	Cotton	4,300	5,470	12.72
3	Wheat	31,500	1,06,659	33.86
4	Cumin	16,700	18,103	10.84
5	Coriander	16,300	24,450	15.00
6	Gram	34,800	63,440	18.23
7	Green gram	6,200	6,429	10.37
8	Sesame (Summer)	2,600	2,184	8.40
9	Coconut*	736	6,624	9,000
10	Mango	404	3,394	84.01

Source: District Agriculture Department & District Horticulture Department

*Coconut production in '000 nuts & productivity in nuts

2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature (° C)		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January-21	-	30.0	7.0	62.5	32.0
February-21	-	34.5	16.0	72.5	52.0
March-21	-	38.0	18.0	81.0	44.0
April-21	-	36.0	23.0	65.0	45.0
May-21	-	38.0	25.0	77.0	66.0
June-21	45	32.0	24.0	87.0	68.0
July-21	241	31.0	17.0	89.0	69.0
August-21	12	35.0	25.0	76.0	64.0
September-21	706	28.0	16.0	88.5	72.0
October-21	-	32.0	24.0	78.0	57.0
November-21	-	30.0	18.0	74.0	43.0
December-21	-	29.0	13.0	72.0	34.0
Total/Average	1004	32.8	18.8	76.9	53.8

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	84,711	-	-
Buffalo	1,44,573	-	-
Sheep	21,675	-	-
Goats	17,891	-	-
Pigs			
<i>Crossbred</i>			
<i>Indigenous</i>			
Rabbits			
Poultry			
Hens (<i>Crossbred</i>)	2069		
<i>Desi</i>			
Category		Production (Q.)	Productivity
Fish (Reservoir)	7586 (Fisherman)	9,50,000	-

2.7. Details of Operational area / Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Porbandar	Khapat Palkhada Rinavala Kuchhadi Degam	Groundnut Wheat Cumin Coriander Sorghum Gram	<ul style="list-style-type: none"> ✓ White grub & stem rot in groundnut ✓ Wilt & blight in cumin ✓ Powdery mildew in coriander 	<ul style="list-style-type: none"> ✓ IPM (Management of white grub in groundnut) ✓ INM ✓ Improved package of practices ✓ IDM (Management of stem rot in groundnut) ✓ Poor quality water
Ranavav	Ramgadh Aaditpara Doltgadh Daiyar Pipliya	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	<ul style="list-style-type: none"> ✓ White grub & stem rot in groundnut ✓ Pink ballworm & sucking pests in cotton ✓ Wilt & blight in cumin 	<ul style="list-style-type: none"> ✓ IPM (Management of white grub in groundnut; pink ball worm in cotton) ✓ INM ✓ Improved package of practices ✓ IDM (Management of stem rot in groundnut) ✓ INM in Horticulture
Kutiyana	Choliyana Sindhpur Frer Gokran Hamadpara	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	<ul style="list-style-type: none"> ✓ White grub & stem rot in groundnut ✓ Pink ballworm & sucking pests in cotton ✓ Wilt & blight in cumin 	<ul style="list-style-type: none"> ✓ IPM (Management of white grub in groundnut; pink ball worm in cotton) ✓ INM ✓ Improved package of practices ✓ IDM (Management of stem rot in groundnut) ✓ Problematic soil ✓ Poor quality irrigation water

2.8. Priority thrust areas

Crop/Enterprise	Thrust area
Groundnut	Integrated Nutrient Management, Integrated Pest & Disease Management, Soil moisture conservation, Improved variety, organic farming
Cotton	Integrated Pest Management, Integrated Nutrient Management
Wheat	Integrated Nutrient Management, Soil moisture conservation
Cumin	Integrated disease management, irrigation management, organic farming
Coriander	Improved variety, IDM
Chick pea	Improved variety, INM, organic farming
Sorghum	Soil moisture conservation
Horticulture	Improved package of practices of spices, PHT in fruits & vegetables
Fisheries	Integrated fish farming, freshwater aquaculture, seaweed cultivation
Farm women	Income generating activities, Value addition in agricultural produce, women & child care

3. TECHNICAL ACHIEVEMENTS

3.1. A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	15	17	13	11	240	200

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
76	64	1915	1310	168	585	2945	1973

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
153.0	124.88	11500	2720

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	-	-

3.1. B. Operational areas details during 2021

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	✓ White grub & stem rot in groundnut	5045	Khapat Palkhada Rinavala Kuchhadi Degam	OFTs; Training; Ext. Activities
	Cumin	✓ Wilt & blight in cumin	2165		FLDs; Training; Ext. Activities
	Coriander	✓ Powdery mildew in coriander	1750		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	✓ Milk Fever & Mastitis	18550		OFTs; Training; Ext. Activities
2	Groundnut	✓ White grub & stem rot in groundnut	5045	Ramgadh Aaditpara Doltgadh Daiyar Pipliya	OFTs; Training; Ext. Activities
	Cotton	✓ Pink ball worm & sucking pest in cotton	2500		FLDs; Training; Ext. Activities
	Cumin	✓ Wilt & blight in cumin	2165		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	✓ Milk Fever & Mastitis	18550		OFTs; Training; Ext. Activities
3	Groundnut	✓ White grub & stem rot in groundnut	5045	Choliyana Sindhpur Gokran Farer Hamadpara	OFTs; Training; Ext. Activities
	Cotton	✓ Pink ball worm & sucking pest in cotton	2500		FLDs; Training; Ext. Activities
	Cumin	✓ Wilt & blight in cumin	2165		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	✓ Milk Fever & Mastitis	18550		OFTs; Training; Ext. Activities

3.2. Technology Assessment (Kharif 2021, Rabi 2020-21, Summer 2021)

A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	1				1					2
Varietal Evaluation										-
Integrated Pest Management										-
Integrated Crop Management										-
Integrated Disease Management		1								1
Small Scale Income Generation Enterprises										-

Weed Management										-
Resource Conservation Technology										-
Farm Machineries										-
Integrated Farming System										-
Seed / Plant production										-
Value addition										-
Drudgery Reduction										-
Storage Technique										-
Mushroom cultivation										-
Total	1	1	-	-	1	-	-	-	-	3

A2. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						-
Nutrition Management	1					1
Disease of Management						-
Value Addition						-
Production and Management						-
Feed and Fodder						-
Small Scale income generating enterprises						-
TOTAL	1	-	-	-	-	1

B. Achievements on technologies Assessed**B.1. Technologies Assessed under various Crops**

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management	Wheat	Application of azatobacter and PSB	3	3	3.6
	Chili	Application of banana pseudostem sap	3	3	3.6
Integrated Disease Management	Groundnut	Application of <i>Pseudomonas flueroscens</i> and <i>Trichoderma harzianum</i>	3	3	3.6
Total			9	9	10.8

B. 2. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Cattle (Gir)	Feeding concentrated mixture and mineral mixture	3	3
Total			3	3

C. 1. Results of Technologies Assessed

Results of On Farm Trial - 1

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Irrigated	Low yield & quality deterioration of seed in groundnut	Management of aflarot in groundnut using bio inputs	3	Integrated Disease Management	1. Yield (q/ha) 2. Economics 3. Microbial population (aflarot causing) (CFU)	CFU	T1- 2.33x100 T2- 2.33x1000 T3- 1.33x1000	Use of bioagents to control soil fungus is effective	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs./unit	B:C Ratio
13	14	15	16	17	18
T- 1 (Farmer's practice) - NIL	-	22.10	q/ha	76910	2.44
T- 2 Seed treatment with tebuconazole @ 1.5 g/kg seed	JAU, Junagadh	24.07	q/ha	90585	2.82
T- 3 Soil application of Trichoderma harzianum @ 0.650 g/ha & Pseudomonas fluorescens @ 0.650 g/ha with castor cake @ 125 kg/ha twice; at the time of sowing & after 1 month of first application	JAU, Junagadh	24.40	q/ha	93118	2.91

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- Title of Technology Assessed - Management of aflarot in groundnut using bio inputs
- Problem Definition - Low yield & quality deterioration of seed in groundnut
- Details of technologies selected for assessment - Integrated Disease Management
- Source of technology - JAU, Junagadh
- Production system and thematic area -
- Performance of the Technology with performance indicators -
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -
- Final recommendation for micro level situation -
- Constraints identified and feedback for research -
- Process of farmers participation and their reaction - Use of bioagents to control soil fungus is effective

Results of On Farm Trial - 2

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat	Irrigated	Reduce yield and soil fertility	Assessment of nitrogen management in wheat crop	3	Integrated nutrient management	1. Yield (q/ha) 2. Economics	-	-	Use of biofertilizers effectively reduces consumption of chemical fertilizers	-	-

Contd..

Technology Assessed*	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs./unit	B:C Ratio
13	14	15	16	17	18
T- 1 - Farmer's practice	-	44.60	q/ha	48555	2.30
T- 2 – Recommended practice	JAU, Junagadh	48.90	q/ha	59565	2.73
T- 3 - Intervention	JAU, Junagadh	52.50	q/ha	67927	3.04

*T-1- Application of only DAP & Urea in different doses

T-2- Application of Nitrogen @ 120 kg/ha in three splits ($\frac{1}{4}$ as basal + $\frac{1}{2}$ at 20 to 25 DAS + $\frac{1}{4}$ at 35 to 40 DAS) and 60 kg P₂O₅ & K₂O as basalT-3 - Application of *Azotobacter* & PSB culture (250 ml/10kg) + 75% of N & P₂O₅ (90-45 kg/ha NP) + 100 % K₂O (60 kg/ha K)

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- Title of Technology Assessed - Assessment of nitrogen management in wheat crop
- Problem Definition - Reduce yield and soil fertility
- Details of technologies selected for assessment - Integrated nutrient management
- Source of technology - JAU, Junagadh
- Production system and thematic area -
- Performance of the Technology with performance indicators -
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -
- Final recommendation for micro level situation -
- Constraints identified and feedback for research -
- Process of farmers participation and their reaction- Use of bio fertilizers effectively reduces consumption of chemical fertilizers and ultimately reduces cost of cultivation

Results of On Farm Trial - 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chili	Irrigated	Low production in Summer chili	Integrated nutrient management in Summer chili	3	Integrated nutrient management	1. Yeild (q/ha) 2. Economics	-	-	Use of banana pseudostem sap increase retention of flowers and quality of product	-	-

Contd..

Technology Assessed*	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs./unit	B:C Ratio
13	14	15	16	17	18
T- 1 - (Farmer's practice) - 150-50-00 (kg NPK/ha)	-	22.47	q/ha	335633	5.19
T- 2 - (Recommended practice) - 100-50-50 (kg NPK/ha)	JAU, Junagadh	22.96	q/ha	348260	5.55
T- 3 - RDF + spraying of banana pseudostem sap @ 1 % thrice. First spray at starting of flowering and another at 15 days intervals.	JAU, Junagadh	23.66	q/ha	369674	5.76

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- Title of Technology Assessed - Integrated nutrient management in Summer chili
- Problem Definition - Low production in Summer chili
- Details of technologies selected for assessment - Integrated nutrient management
- Source of technology - JAU, Junagadh
- Production system and thematic area -
- Performance of the Technology with performance indicators -
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -
- Final recommendation for micro level situation -
- Constraints identified and feedback for research -
- Process of farmers participation and their reaction- Use of banana pseudo stem sap increase retention of flowers and quality of product

Results of On Farm Trial – 4

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cattle	-	Low fat %, Financial loss	Effect of supplementation of concentrates on milk production of <i>Gir</i> cow	3	Nutrition management	1. Milk yield 2. Income	- -	9.9 154 Rs./animal/day	This tech. increases milk yield	-	-

Technology Assessed*	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs./animal	B:C Ratio
13	14	15	16	17	18
T-1 - Farmers Practice - Control	-	2410	lit/ani./annum	31000	1.32
T-2 - Feeding of concentrated mixture		2740	lit/ani./annum	42000	1.40
T-3 - Feeding of concentrated mixture + Mineral mixture	Animal Nutrition Research Station, AAU, Anand	2970	lit/ani./annum	48000	1.44

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- Title of Technology Assessed - Effect of supplementation of concentrates on milk production of *Gir* cow
- Problem Definition - Low fat %, Financial loss
- Details of technologies selected for assessment - Nutrition management
- Source of technology - Animal Nutrition Research Station, AAU, Anand
- Production system and thematic area -
- Performance of the Technology with performance indicators -
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -
- Final recommendation for micro level situation -
- Constraints identified and feedback for research -
- Process of farmer's participation and their reaction- This technology increases milk yield

3.3. FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2021 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Wheat	Varietal Evaluation	Improved variety – GJW-463	Trainings, FLDs	21	672	450
2	Wheat	INM	<i>Azotobacter</i> + PSB	Trainings, OFTs	5	85	105
3	Groundnut	Varietal Evaluation	Improved variety GJG-22	Trainings, FLDs & Field days	35	1124	2200
4	Gram	Varietal Evaluation	Improved variety GJG-6	Trainings, FLDs & Field days	8	155	310
5	Green gram	Varietal Evaluation	Improved variety GM -4	Trainings, FLDs	26	810	445
6	Cotton	IPM	Pheromone trap + <i>Beuveria bassiana</i>	Trainings, FLDs & Field days	20	990	2450
7	Cattle/buffalos	Nutrition management	Mineral mixture, Bypass fat	Trainings, FLDs	15	205	-

B. Details of FLDs implemented during 2021 (Kharif- 2021, Rabi-2020-21, Summer-2021)

Cereals

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	Varietal	GJW-463	Rabi-2020-21	4	4	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi-2020-21	Irrigated	Medium black	Low	Medium	High	Groundnut	15-25/11/20	-	1717	38

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Increase yield over variety GJW-496 and other private varieties
2	Length of spike is higher in GJW – 463

Farmers' reactions on specific technologies

S. No	Feed Back
1	Variety GJW-463 gives higher yield than GJW-496/ Lok-1
2	Chapati making from GJW-463 flour was also acceptable

Horticultural crops

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Onion	Varietal	GJRO-11	Rabi-2020-21	4	2	0	10	10	-
2	Onion	IDM	<i>Pochonia chlamydosporia</i> + <i>Trichoderma harzianum</i>	Rabi-2020-21	4	4	0	10	10	-
3	Mango	IPM	Fruit fly trap	Rabi-2020-21	4	4	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Onion	Rabi-2020-21	Irrigated	Medium black	Low	Medium	High	Groundnut	01-20/11/20	-	1717	38
Onion	Rabi-2020-21	Irrigated	Medium black	Low	Medium	High	Groundnut	01-20/11/20	-	1717	38
Mango	Rabi-2020-21	Irrigated	Medium black	Low	Medium	High	-	-	-	1717	38

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Quality of mango was improved due to less infestation of fruit fly
2	Bio agents effectively control nematode infestation in onion and controls subsequent fungal infections
3	Onion variety GJRO-11 gives higher yield as compared to pillipati

Farmers' reactions on specific technologies

S. No	Feed Back
1	Quality of onion was good
2	Less infestation of fruit fly in mango

Oilseeds

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	Varietal	GJG-22	Khariif-2021	4	4	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	Khariif-2021	Irrigated	Medium black	Low	Medium	High	Wheat/cumin	17-25/06/2021	15-25/10/2021	1056	32

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Improved variety of Groundnut GJG -22 is better than the Existing variety (GG-20) in production

Farmers' reactions on specific technologies

S. No	Feed Back
1	Production of GJG-22 was higher
2	Higher oil percentage in GJG-22 preferred by oil miller

Pulses

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Greengram	Varietal	GM-4	Summer-2021	4	4	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Greengram	Summer-2021	Irrigated	Medium black	Low	Medium	High	Wheat/cumin/coriander	25-28/02/21	-	1717	38

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Variety of greengram GM-4 is better performer than local varieties

Farmers' reactions on specific technologies

S. No	Feed Back
1	Increase production than local varieties

Commercial crops

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cotton	IPM	Pheromone trap + <i>Beauveria bassiana</i>	Kharif-2021	10	10	0	25	25	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cotton	Kharif-2021	Irrigated	Medium black	Low	Medium	High	G. Nut/ Cotton	17-25/06/2021	-	1056	32

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	FLDs failed due to flood in the area

Farmers' reactions on specific technologies

S. No	Feed Back
1	FLDs failed due to flood in the area

Analytical Review of component demonstrations

Crop	Season	Component	Farming situation	Average Yield (q/ha)	Local Yield (q/ha)	% increase in productivity over local check
Chickpea	Rabi-2020-21	HNPV + <i>Beauveria bassiana</i>	Rainfed	17.96	16.50	8.85

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2	16.12.2020 & 08.01.2021	51	-
2	Farmers Training	7	-	165	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
	Varietal	Improved variety	GJG-22	10	4	23.75	15.00	20.87	18.81	11.08	51850	109484	57631	2.11	51850	98665	46815	1.90

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Greengram																		
	Varietal	Improved variety	GM-4	10	4	17.50	12.50	14.63	12.88	14.29	22000	91775	69775	4.17	22000	80781	58781	3.67

FLD on Other crops

Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					H	L	A										
Cereals																	
Wheat																	
	Varietal	Improved variety (GJW-463)	10	4	58.75	42.50	49.75	44.13	15.49	37300	95769	58469	2.57	37300	84941	47641	2.27
Vegetables																	
Onion																	
	Varietal	Improved variety (GJRO-11)	10	2	313.76	258.00	295.75	265.75	11.39	95000	385641	290641	4.06	95000	346328	251328	3.64
	IDM	<i>Pochonia chlamydosporia</i> + <i>Trichoderma harzianum</i>	10	4	312.50	268.75	292.13	265.75	10.04	95000	206190	111191	2.17	97000	178034	81034	1.84
Fruit crops																	
Mango																	
	IPM	Fruit fly trap	10	4	98.75	76.25	91.25	83.63	9.18	145000	474375	329375	3.27	150000	418125	268125	2.79
Commercial Crops																	
Cotton																	
	IPM	Pheromone trap + <i>Beauveria bassiana</i>	25	10	-	-	-	-	-	-	-	-	-	-	-	-	-

Frontline Demonstration on Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Sorghum																		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)				
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Cattle																		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Common Carps																		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit					
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)		
Oyster Mushroom																		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Drudgery reduction	Revolving milking stool	5	Relevance factor	Highly relevant	Medium relevant

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)				
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Other Enterprise: Kitchen Gardening

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	Yield (Kg)- supply of vegetables, fruits, etc from KG in the year		% change in yield	Household size (number)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check*		Demo	Check	Gross Cost	Gross Return /Savings*	Net Return	BCR (R/C)	Gross Cost	Gross Return / Savings*	Net Return	BCR (R/C)
Kitchen Gardening (Rab-2020-21)	Kitchen Gardening	Improved varieties by JAU**	50	50/ crop	51.72	-	-	-	-	-	-	-	-	-	-	-	-
Kitchen Gardening (Kharif-2021)	Kitchen Gardening	Improved varieties by JAU*	50	50/ crop	39.16	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Increase in yield	Economics of demonstration (Rs./ha)				
					High	Low	Average			Gross Cost	Gross Return	Net Return	BCR (R/C)	
Oilseed crop														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.4. Training Programmes

Farmers' Training including sponsored training programmes (On campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
I Crop Production										
Weed Management	1	23	0	23	0	0	0	23	0	23
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production	1	18	2	20	0	0	0	18	2	20
Nursery management	1	22	0	22	0	0	0	22	0	22
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others – Fodder production	1	24	0	24	0	0	0	24	0	24
Total	4	87	2	89	0	0	0	87	2	89
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables	1	13	0	13	0	0	0	13	0	13
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	17	0	17	0	0	0	17	0	17
Others (pl specify)										
Total (a)	2	30	0	30	0	0	0	30	0	30
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others – Value addition	1	0	23	23	0	0	0	0	23	23
Total (b)	1	0	23	23	0	0	0	0	23	23
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										

Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	2	29	29	58	0	0	0	29	29	58
Processing and value addition										
Others (pl specify)										
Total (f)	2	29	29	58	0	0	0	29	29	58
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	5	59	52	111	0	0	0	59	52	111
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	4	45	17	62	0	0	0	45	17	62
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	1	10	0	10	0	0	0	10	0	10
Feed & fodder technology	1	20	0	20	0	0	0	20	0	20

Production of quality animal products										
Others (pl specify)										
Total	6	75	17	92	0	0	0	75	17	92
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	31	31	0	0	0	0	31	31
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	0	38	38	0	0	0	0	38	38
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts	1	0	21	21	0	0	0	0	21	21
Women and child care										
Others – E-marketing	1	0	26	26	0	0	0	0	26	26
Total	5	0	116	116	0	0	0	0	116	116
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	2	20	13	33	0	0	0	20	13	33
Integrated Disease Management	3	68	0	68	0	0	0	68	0	68
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	5	88	13	101	0	0	0	88	13	101
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										

Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	25	309	200	509	0	0	0	309	200	509

Farmers' Training including sponsored training programmes (Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	19	0	19	0	0	0	19	0	19
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	33	24	57	0	0	0	33	24	57
Soil & water conservation										
Integrated nutrient management	4	68	0	68	0	0	0	68	0	68
Production of organic inputs										
Others (pl specify)										
Total	8	120	24	144	0	0	0	120	24	144
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	0	16	16	0	0	0	0	16	16
Others (pl specify)										
Total (a)	1	0	16	16	0	0	0	0	16	16
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	15	0	15	0	0	0	15	0	15
Cultivation of Fruit	1	22	0	22	0	0	0	22	0	22
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	2	37	0	37	0	0	0	37	0	37
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Total (c)										

d) Plantation crops										
Production and Management technology	2	34	0	34	0	0	0	34	0	34
Processing and value addition										
Others (pl specify)										
Total (d)	2	34	0	34	0	0	0	34	0	34
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	2	9	28	37	1	0	1	10	28	38
Processing and value addition										
Others (pl specify)										
Total (f)	2	9	28	37	1	0	1	10	28	38
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	7	80	44	124	1	0	1	81	44	125
III Soil Health and Fertility Management										
Soil fertility management	3	9	50	59	7	5	12	16	55	71
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	3	9	50	59	7	5	12	16	55	71
IV Livestock Production and Management										
Dairy Management	1	0	10	10	0	0	0	0	10	10
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	0	10	10	0	0	0	0	10	10
Disease Management	3	14	38	52	0	0	0	14	38	52
Feed & fodder technology	1	0	24	24	0	0	0	0	24	24
Production of quality animal products										
Others – Artificial insemination	1	0	9	9	0	0	0	0	9	9
Total	7	14	91	105	0	0	0	14	91	105

V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet	2	0	49	49	0	0	0	0	49	49
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	0	45	45	0	11	11	0	56	56
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	25	25	0	0	0	0	25	25
Women empowerment										
Location specific drudgery reduction technologies	1	0	19	19	0	0	0	0	19	19
Rural Crafts										
Women and child care	1	0	21	21	0	0	0	0	21	21
Others (pl specify)										
Total	6	0	159	159	0	11	11	0	170	170
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	2	23	29	52	0	0	0	23	29	52
Integrated Disease Management	3	65	0	65	0	0	0	65	0	65
Bio-control of pests and diseases	1	0	15	15	0	0	0	0	15	15
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	6	88	44	132	0	0	0	88	44	132
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										

Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	37	311	412	723	8	16	24	319	428	747

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
I Crop Production										
Weed Management	1	23	0	23	0	0	0	23	0	23

Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	19	0	19	0	0	0	19	0	19
Integrated Farming										
Micro Irrigation/irrigation										
Seed production	1	18	2	20	0	0	0	18	2	20
Nursery management	1	22	0	22	0	0	0	22	0	22
Integrated Crop Management	3	33	24	57	0	0	0	33	24	57
Soil & water conservation										
Integrated nutrient management	4	68	0	68	0	0	0	68	0	68
Production of organic inputs										
Others – Fodder production	1	24	0	24	0	0	0	24	0	24
Total	12	207	26	233	0	0	0	207	26	233
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables	1	13	0	13	0	0	0	13	0	13
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	2	17	16	33	0	0	0	17	16	33
Others (pl specify)										
Total (a)	3	30	16	46	0	0	0	30	16	46
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	15	0	15	0	0	0	15	0	15
Cultivation of Fruit	1	22	0	22	0	0	0	22	0	22
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)	1	0	23	23	0	0	0	0	23	23
Total (b)	3	37	23	60	0	0	0	37	23	60
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology	2	34	0	34	0	0	0	34	0	34
Processing and value addition										

Others (pl specify)										
Total (d)	2	34	0	34	0	0	0	34	0	34
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	4	38	57	95	1	0	1	39	57	96
Processing and value addition										
Others (pl specify)										
Total (f)	4	38	57	95	1	0	1	39	57	96
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	12	139	96	235	1	0	1	140	96	236
III Soil Health and Fertility Management										
Soil fertility management	3	9	50	59	7	5	12	16	55	71
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	3	9	50	59	7	5	12	16	55	71
IV Livestock Production and Management										
Dairy Management	5	45	27	72	0	0	0	45	27	72
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	0	10	10	0	0	0	0	10	10
Disease Management	4	24	38	62	0	0	0	24	38	62
Feed & fodder technology	2	20	24	44	0	0	0	20	24	44
Production of quality animal products										
Others (pl specify)	1	0	9	9	0	0	0	0	9	9
Total	13	89	108	197	0	0	0	89	108	197
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet	2	0	49	49	0	0	0	0	49	49

Designing and development for high nutrient efficiency diet	1	0	31	31	0	0	0	0	31	31
Minimization of nutrient loss in processing										
Processing and cooking	1	0	45	45	0	11	11	0	56	56
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	3	0	63	63	0	0	0	0	63	63
Women empowerment										
Location specific drudgery reduction technologies	1	0	19	19	0	0	0	0	19	19
Rural Crafts	1	0	21	21	0	0	0	0	21	21
Women and child care	1	0	21	21	0	0	0	0	21	21
Others (pl specify)	1	0	26	26	0	0	0	0	26	26
Total	11	0	275	275	0	11	11	0	286	286
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	4	43	42	85	0	0	0	43	42	85
Integrated Disease Management	6	133	0	133	0	0	0	133	0	133
Bio-control of pests and diseases	1	0	15	15	0	0	0	0	15	15
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	11	176	57	233	0	0	0	176	57	233
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										

Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	62	620	612	1232	8	16	24	628	628	1256

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1	12	0	12	0	0	0	12	0	12
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										

Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	1	12	0	12	0	0	0	12	0	12

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										

Repair and maintenance of farm machinery and implements											
Value addition											
Small scale processing											
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts											
Production of quality animal products											
Dairying											
Sheep and goat rearing											
Quail farming											
Piggery											
Rabbit farming											
Poultry production											
Ornamental fisheries											
Composite fish culture											
Freshwater prawn culture											
Shrimp farming											
Pearl culture											
Cold water fisheries											
Fish harvest and processing technology											
Fry and fingerling rearing											
Any other (pl. specify)											
TOTAL	0	0	0	0	0	0	0	0	0	0	0

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1	12	0	12	0	0	0	12	0	12
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										

Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	1	12	0	12	0	0	0	12	0	12

Training programmes for Extension Personnel including sponsored training (On campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security	1	1	41	42	0	0	0	1	41	42
Any other (pl.specify)										
TOTAL	1	1	41	42	0	0	0	1	41	42

Training programmes for Extension Personnel including sponsored training (Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	0	0	0	0	0	0	0	0	0	0

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										

Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security	1	1	41	42	0	0	0	1	41	42
Any other (pl.specify)										
TOTAL	1	1	41	42	0	0	0	1	41	42

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Increasing production and productivity of crops	4	115	93	208	12	7	19	127	100	227
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	4	115	93	208	12	7	19	127	100	227
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										

Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	4	115	93	208	12	7	19	127	100	227

Details of vocational training programmes carried out by KVKs for rural youth (4 or more days)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Total										

Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	0	0	0	0	0	0	0	0	0	0

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	443	443	0	443
Diagnostic visits	19	101	2	103
Field Day	1	21	0	21
Group discussions	0	0	0	0
<i>Kisan Ghosthi</i>	3	111	0	111
Film Show	0	0	0	0
Self -help groups	0	0	0	0
<i>Kisan Mela</i>	1	35	0	35
Exhibition	0	0	0	0
Scientists' visit to farmers field	19	101	2	103
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	1	18	0	18
Farmers' seminar/workshop	0	0	0	0
Method Demonstrations	1	7	0	7
Celebration of important days	21	1129	3	1132
Special day celebration	0	0	0	0
Exposure visits	0	0	0	0
Others (pl.specify)	0	0	0	0
Total	509	1966	7	1973

Details of other extension programmes

Particulars	Number
Electronic Media (CD/DVD)	0
Extension Literature	0
Newspaper coverage	5
Popular articles	1
Radio Talks	0
TV Talks	0
Animal health camps (Number of animals treated)	68
Social Media (No. of platforms Used)	2
Others (pl. specify)	0
Total	76

3.6 Online activities during year 2021

S. No	Activity Type	Mode of implementation	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training				
1	-	-	-	-	-
Total		-	-	-	-
B	Farmers scientist's interaction programme				
1	-	-	-	-	-
Total		-	-	-	-

C		Farmers seminars			
1		Google meet	Celebration of honey bee day	1	69
Total		-	-	1	69
D		Expert lectures			
1	-	-	-	-	-
Total					
E		Any other (Pl. specify)			
1	<i>E-Goshthis</i>	Google meet	Nation fish farmer day	1	17
2	<i>E-Goshthis</i>	Google meet	ICAR foundation day	1	53
3	<i>E-Goshthis</i>	Google meet	Nutrition & food for farmers	1	41
Total		-	-	3	111
Grand Total (A+B+C+D+E)		-	-	4	180

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	GW-451	-	23.50	55210/-	-
Oilseeds	Groundnut	GG-20	-	66.30	1027650/-	-
		GJG-17	-	23.10	358050/-	-
		GJG-22	-	6.60	102300/-	-
		Sesame	GJT-5	-	0.72	10800/-
Pulses	Green gram	GM-4	-	1.37	15070/-	-
		GAM-5	-	1.49	16390/-	-
		Urd bean	GU-2	-	1.68	15120/-
	Indian bean	GNIB-22	-	0.12	3120/-	-
Total				124.88	1603710/-	

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Fruits	Coconut	-	DxT	2120	848000/-	140
Forest species	Simarouba	-	-	600	-	305
Total				2720	848000/-	445

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg/Lit		
NIL				

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
NIL				

4. Literature Developed/Published (with full title, author & reference)**A. KVK News Letter (Date of start, Periodicity, number of copies distributed etc.) - NIL****B. Literature developed/published**

Item	Title	Authors name	Number
Research papers	Constraints faced by dairy farmers in different state of India: An Overview	V.V.Gamit; M.D.Odedra; A.R.Ahlawat; V.S.Prajapati; H.A.Patel & K.C.Gamit	-
Technical reports	ZREAC (Kharif)	-	-
	ZREAC (Rabi-summer)	-	-
	AGRESCO Report	-	-
	Annual Progress Report (2021)	-	-
	SAC report (2020-21)	-	-
	Annual Action Plan report (2021)	-	-
News letters	JAU news letter (Total-4)	-	-
Technical bulletins	-	-	-
Popular articles	<i>Rasayanik khatarno samj purvak upyog ane teni karykshamta</i>	A.M.Butani, V.M.Savaliya & B.V.Thummar	-
Extension literature	-	-	-
Others – Book chapter	Study on the effect of parity on milk letdown time in Mehsana buffaloes	H.A.Patel; A.K.Shrivastava; H.D.Chauhan & J.B.Patel	-
TOTAL	13	-	-

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
-	-	-	-

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	-	-
2	Facebook page/ Account	-	-
3	Mobile Apps	-	-
4	WhatsApp groups	4	203
5	Twitter Account	-	-
6	Any other (Pl. Specify)	-	-

D. Success Stories / Case studies, if any**1. Seed production in onion through natural farming****A. Farmer details**

- i. Name of farmer** - Rajubhai Rinabhai Bapodara
- ii. Address** - At-Kolikhada, Ta/Di-Porbandar
- iii. Mobile no.** - 9913116691
- iv. Age** - 46 yrs
- v. Education** - Illiterate

B. Agriculture details

- i. Land (ha) (Irrigated)-** 1.0
- ii. Major crops grown**
 - Kharif* - Groundnut
 - Rabi* - Onion/Wheat/Coriander
 - Summer - Greengram

iii. Animal husbandry

Cattle - 1

Buffalo - 2

C. Details of Technology

Rajubhai Bapodara is a progressive farmer of village Kolikhada. He sown onion variety pillipati in 0.6 acre area in Rabi – 2020-21. He practice natural farming in this field and do not used any chemical insecticides as well as fertilizer. He retain crop for seed production purpose and produce 340 kg of seed out of 0.6 acre area. He procure Rs.1000/- for each kg of seed by selling & get net profit of Rs. 2,40,000/-.

D. Horizontal spread

Many farmers visited his field & admire themselves from the success of Rajubhai Bapodara.

2. Title: Additional income through vegetable cultivation

A. Basic Information

Some of the farm women of village Palakhda, Aaditpara, and Bileshwar are in very close concern and in continuous touch with KVK scientist since a long time. They are always ready to participate in any event organised by KVK, Khapat.

KVK Khapat had given a FLD on kitchen gardening during the year in which improved varieties five vegetable crops produced by JAU and got bumper and quality production of these vegetables from the FLD. Farm women was motivated and inspired to grow these vegetables in Kharif and Rabi season commercially.

B. Income generation through vegetable cultivation

Aditpara

1. Name - Lakhiben Parbatbhai Kutana
Area - 0.4 acre
Net Income - 15000/-
2. Name - Valiben Arjanbhai Kutana
Area - 2.8 acre
Net Income - 41000/-
3. Name - Vejiben Arjanbhai Kutana
Area - 2.0 acre
Net Income - 50000/-

Palkhada

1. Name - Jayshreeben Nalinbhai Teraiya
Area - 0.4 acre
Net Income - 5000/-
2. Name - Bhumika Vrajlal Joshi
Area - 0.2 acre
Net Income - 25000/-

Bileshwar

1. Name - Krishna Narendrabhai Gojiya
Area - 0.8 acre
2. Name - Bhavanaben Chanabhai Bharvadiya
Area - 0.6 acre

3. Title: Effect of feeding mineral mixture on milking animals

A. Farmer Details

- i. Name of farmer : Pratap Ganabhai Bhutiya
- ii. Address : At -Deodar, Ta –Porbandar, Di - Porbandar

- iii. **Mobile number** : 81559992774
 iv. **Age** : 26 yr
 v. **Education** : B.com
 vi. **Size of land holding (in acre)** : 3.6

B. Intervention /Technology details

Farmer has adopted the scientific concepts to rear his animals as per the suggestions given by KVK scientist. Scientist suggests him to use mineral mixture powder daily @ 50gm/animal. He gets better milk production by practicing this. He gets net profit of Rs.95000/- instead of Rs.88000/- from one animal. He received best animal husbandry award by Animal Husbandry Department, Gujarat.

C. Economic information

Farmer practices (without feeding mineral mixture)

Year	Milking animal	Total production	Total income	Total expenditure	Net profit
2019-2020	1	4300	258000	170000	88000

Suggested practice (Use of mineral mixture)

Year	Milking animal	Total production	Total income	Total expenditure	Net profit
2020-2021	1	4600	276000	181000	95000

D. Impact

Observing these scientific practices for feeding of mineral mixture on milking animals 250 farmers started to use of mineral mixture powder at deodar village.

E. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

NIL

F. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
-	-	-	-

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers

a) Nil

B. Rural Youth

a) Nil

C. In-service personnel

a) Nil

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) Field level observations

For FLD:

- i) New variety/technology
 ii) Poor yield at farmers level
 iii) Existing cropping system

5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) - 2018-19

Sr No	Taluka	Name of the block	Name of the village
1	Porbandar	Cluster I	Khapat Palkhada Rinavala Kuchhadi Degam
2	Ranavav	Cluster II	Ramgadh Aaditpara Doltgadh Daiyar Pipliya
3	Kutiyana	Cluster III	Choliyana Sindhpur Frer Gokran Hamadpara

- ii. No. of farm families selected per village : -
 iii. No. of survey/PRA conducted : 15
 iv. No. of technologies taken to the adopted villages : 21
 v. Name of the technologies found suitable by the farmers of the adopted villages : -
 vi. Impact (production, income, employment, area/technological– horizontal/vertical): -
 vii. Constraints if any in the continued application of these improved technologies: -

6. LINKAGES**A. Functional linkage with different organizations**

Name of organization	Nature of linkage
1 State department of Agriculture District Agriculture Officer ATMA Deputy Director, FTC Dy. Director of Agriculture (Extension) Dy. Director of Horticulture Dy. Director of Animal husbandry Asstt. Director of Fisheries	Most of organizations are members of Scientific Advisory Committee of this KVK and have linkage with different mandatory activities conducting training programmes and demonstration on implements, Khedut Shibir, Kishan Gosthy, Field Day and Vocational Trainings, Sponsored trainings, contribution received for infrastructural development etc.
2. Asstt. Conservator of Forest	
3. Taluka purchase and sales Union (Porbandar, Kutiyana, Ranavav)	
4. State Bank of India	
5.DWDU, Porbandar	
6.Doordarshan Kendra	
7.All India Radio	

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
ATIC	April, 2014	State Govt.	21,40,000

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	2	0	-
02	Research projects	-	-	-	-
03	Training programmes	-	5	2	-
04	Demonstrations	-	-	-	-
05	Extension Programmes				
	Kisan Mela	-	-	-	-
	Technology Week	-	-	1	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	1	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Important day celebration)	-	-	1	-
06	Publications				
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (Pl. specify)				
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agripreneurs development	-	-	-	-

D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
-	-	-	-	-	-

E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
-	-	-	-	-	-

F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
-	-	-	-	-	-

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Trainings	With ATMA	0	0	-

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
-	-	-	-	-	-

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
-	-	-	-	-	-

7. Convergence with other agencies and departments

Sr. No.	Name of organization
1	District Agriculture Officer
2	ATMA
3	Deputy Director, FTC
4	Dy. Director of Agriculture (Extension)
5	Dy. Director of Horticulture
6	Dy. Director of Animal husbandry

8. Innovative Farmers Meet

Sl. No	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	No
	Brief report in this regard	

9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report
-	-	-	-	-	-

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed

- ✓ Application of *Beauveria bassiana* + HNPV effectively control pod borer in chickpea
- ✓ Application of *Pochonia clemaidosprium* found useful to control nematode infestation in onion
- ✓ Adoption of vegetable varieties released by JAU was increasing due to kitchen gardening FLDs
- ✓ Number of kitchen gardens were increasing in vicinity of the FLDs
- ✓ Use of mineral mixture & bypass fat increases milk yield
- ✓ The lustre of seed var. GJG-6 was somewhat dim as compared to Digvijay
- ✓ Chickpea variety GJG-6 gave higher yield (~11 %) as compared to Digvijay
- ✓ Wheat var. GJW-463 have higher tillering and production (~15%) than other local varieties
- ✓ Complete failure of FLD – IPM in cotton due to flood in village Mandva
- ✓ Feeding of mineral mixture powder to cattle & buffalo increases milk production & growth rate of animal
- ✓ Less infestation of Yellow Vein Mosaic Virus was observed in greengram var. GM-4

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities**1. Horticulture**

- ✓ Incidence of rugose spiralling whitefly was observed in Porbandar district
- ✓ Malformation is major issue in mango

2. Plant protection

- ✓ Incidence of aphid was observed in cotton
- ✓ Wilt due to salt affected soil was observed in *Ghed* area of the district
- ✓ Fall army worm was observed in sorghum

3. Crop production

- ✓ Certified seed of latest groundnut varieties should be made available to the farmers
- ✓ To develop Groundnut digger and combined harvester of groundnut, if possible

4. Home Science

- ✓ To develop the machineries and tools for reduce the drudgery for farm women
- ✓ To develop models of urban agriculture to ensure food and nutritional security
- ✓ To develop package of practices for organic management of pest and disease in kitchen gardening vegetables

5. Animal Husbandry

- ✓ Ecto-parasites problems was

11. Technology Week celebration during 2021: Yes , If Yes

Period of observing Technology Week : From 27th September to 01st October, 2021

Online / Offline : Offline

Total number of farmers visited : 315

Total number of agencies involved : 2

Number of demonstrations visited by the farmers within KVK campus: 6

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
<i>Gosthies</i>	-	-	-
Lectures organized	20	315	PHT & value addition in groundnut, seed production technology, IPDM in groundnut, Protected cultivation, animal nutrition and health care, artificial insemination, nursery management technology
Exhibition	5	315	Implements, water harvest structure, vermicompost unit, crop cafeteria, green house, net house
Film show	5	315	Oilseeds and pulses
Fair	-	-	-
Farm Visit	5	315	-
Diagnostic Practical's	-	-	-
Supply of Literature (No.)	3	945	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	315	-

12. Interventions on drought mitigation (if the KVK included in this special programme)**A. Introduction of alternate crops/varieties**

State	Crops/cultivars	Area (ha)	Number of beneficiaries
-	-	-	-

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-

Pulses	-	-
Cereals	-	-
Vegetable crops	-	-
Tuber crops	-	-
Total	-	-

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
-	-	-	-
Total	-	-	-

D. Animal health camps organized

State	Number of camps	No. of animals	No. of farmers
-	-	-	-
Total	-	-	-

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
-	-	-	-	-
Total	-	-	-	-

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
-	-	-	-
Total	-	-	-

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-

13. IMPACT**A. Impact of KVK activities (Not to be restricted for reporting period).**

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
-	-	-	-	-

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

B. Cases of large scale adoption

(Please furnish detailed information for each case)

-- NIL --

C. Details of impact analysis of KVK activities carried out during the reporting period

-- NIL --

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2021	-	-	-
Feb 2021	-	-	-
March 2021	-	-	-
April 2021	-	-	-

May 2021	1	114	-
Jun 2021	-	-	-
Jul 2021	-	-	-
Aug 2021	-	-	-
Sept 2021	-	-	-
Oct 2021	-	-	-
Nov. 2021	-	-	-
Dec. 2021	-	-	-

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other	
Porbandar	Text only	-	-	1	-	-	-	1
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	-	-	1	-	-	-	-
	Total farmers Benefitted	-	-	114	-	-	-	-

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm)

Sl. No	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Net house	2010	-	Simarouba	Plants	600 nos.	-	-	-

B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)	
				Variety	Type of Produce	Qty (qtl.)	Cost of inputs	Gross income
Cereals	01-12-2021	-	1	GW-451	Seed	-	-	-
Pulses	24-02-2021	06-05-2021	1	GM-4	Seed	8.00	-	-
Oilseeds	21-06-2021	09-11-2021	10	GG-20	Seed	64.31	-	-
	22-06-2021	11-11-2021	2	GJG-17	Seed	21.25	-	-
	21-07-2021	13-11-2021	1	GJG-22	Seed	4.90	-	-

C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

Sl. No	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
	Bio-Fertilizers	-	-	-	-	-
	Bio-Fungicides	-	-	-	-	-
	Bio-pesticides	-	-	-	-	-
	Bio-Agents	-	-	-	-	-

D. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-

E. Utilization of hostel facilities

Accommodation available (No. of beds): 30

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2021	0	0	-
February 2021	0	0	-
March 2021	0	0	-
April 2021	0	0	-
May 2021	0	0	-
June 2021	0	0	-
July 2021	0	0	-
August 2021	0	0	-
September 2021	0	0	-
October 2021	0	0	-
November 2021	0	0	-
December 2021	0	0	-

F. Database management

S. No	Database target	Database created
-	-	-

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanctioned (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	5.0 ha micro sprinkler	2	2	-	425	2	-	10 ha

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.025	Vegetable crops	5	726
0.12	Fruit crops	4	128
-	Others if any	-	-

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
17	Vegetable crops	9	140
3	Fruit crops	2	14
-	Others if any	-	-

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
-	-	-	-	-	-	-	-	-	-

1. FINANCIAL PERFORMANCE**A. Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	-	-	-	-	-	-	-
With KVK	SBI, Porbandar	Porbandar	000456	Training Organizer, KVK, Khapat – porbandar	10250767705	360002121	SBIN0000456

B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh) (Till Dec, 2021)

S. No.	Particulars	Sanctioned	Released	Expenditure
A	Capital (Non Recurring)	-	-	-
B	Salary	70.00	58.29	49.09
C	General (Contingencies and TA)			
	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
	POL, repair of vehicles, tractor and Equipments			
	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	10.00	6.68	4.52
	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
	Training of extension functionaries			
	Maintenance of buildings			
	Establishment of Soil, Plant & Water Testing Laboratory			
	Library			
	TOTAL (A+B+C)	80.00	64.97	53.61

C. Status of revolving fund (Rs. in lakh) for the Four years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2018 to March 2019	33.96	40.49	26.01	48.44
April 2019 to March 2020	48.44	30.53	22.12	56.85
April 2020 to March 2021	56.85	22.92	29.08	50.69
April 2021 to December, 2021	50.69	28.63	10.01	69.31 (upto Dec,21)

17. Details of HRD activities attended by KVK staff during year

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Dr.R.K.Odedra	Senior Scientist & Head	Annual Action Plan - Workshop	ATARI, Pune	Online	18/02/2021
V.M.Savaliya	Scientist	Participating Programme Planning, Monitoring & Evaluation	DEE, JAU & EEI-Anand	Online	9-10/03/2021
Dr.H.A.Patel	Scientist	Participating Programme Planning, Monitoring & Evaluation	DEE, JAU & EEI-Anand	Online	9-10/03/2021
Dr. H.N. Der	Scientist	Participating Programme Planning, Monitoring & Evaluation	DEE, JAU & EEI-Anand	Online	9-10/03/2021
Dr.R.K.Odedra	Senior Scientist & Head	Participating Programme Planning, Monitoring & Evaluation	DEE, JAU & EEI-Anand	Online	9-10/03/2021
V.M.Savaliya	Scientist	Sensitization workshop on DFI network project	ATARI,Jodhpur	Online	22/04/2021
Dr.H.A.Patel	Scientist	Innovative Extension Strategies for Sustainable Livestock Development	Madras Veterinary College, Chennai	Online	29/04/2021
Dr.H.A.Patel	Scientist	Health of Mother Earth - Conservation of Ecosystem & Biodiversity for Sustainable Development	JAU, Junagadh	Online	04/06/2021
Dr.H.N.Der	Scientist	Role of Legumes & Pulses in Sustainable Cropping System of Hot Arid Zone		Online	17/07/2021
V.M.Savaliya	Scientist	Hands on Training - Kisan Sarthi	ATARI, Pune	Online	24/07/2021
Dr.H.R. Vadar	Senior Scientist & Head	Annual Zonal Workshop of KVKs	ATARI-Pune	Online	4-6/8/2021
Dr.H.N.Der	Scientist	Integrated Parthenium Management	ICAR-Directorate of Weed Research, Jabalpur	Online	19/08/2021
Dr.H.N.Der	Scientist	Analysis of Pesticide Residues in Food & Agricultural Commodities	AAU, Anand	Online	27/08/2021

Dr.H.N.Der	Scientist	Use of Mass Media for Transfer of Technology	DEE, JAU & EEI-Anand	Online	1-3/09/2021
V.M.Savaliya	Scientist	Use of Mass Media for Transfer of Technology	DEE, JAU & EEI-Anand	Online	1-3/09/2021
Dr.H.A.Patel	Scientist	Use of Mass Media for Transfer of Technology	DEE, JAU & EEI-Anand	Online	1-3/09/2021
Dr.H.N.Der	Scientist	Prospects & Functioning of Commodity Markets in India	AAU, Anand	Online	17-18/09/2021
Dr.H.N.Der	Scientist	Prakrutik Krushi Karyshala	Gandhinagar	Offline	26/11/2021 to 01/12/2021
Dr.H.A.Patel	Scientist	Presentation Skills for Professional Excellence	DEE, JAU & EEI-Anand	Offline	01-03/12/2021
V.M.Savaliya	Scientist	Presentation Skills for Professional Excellence	DEE, JAU & EEI-Anand	Offline	01-03/12/2021

18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before (base year)	After (current year)
Degam	10	<ul style="list-style-type: none"> ➤ Bench mark survey regarding farmers status were done ➤ 5 FLDs on relevant technologies & seed of improved varieties were provided to the farmers ➤ 2 OFTs were also given in Degam village on recent technologies ➤ 8 ON & OFF campus trainings were conducted 	<ul style="list-style-type: none"> ➤ OFTs- 6 farmers ➤ FLDs – 27 farmers ➤ Training – 104 farmers 	320608	410513
Choliyana	10			514128	585000

19. Details of activities planned under PKVY

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
1	Training	0	Training	4	14

20. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	
NIL								

21. Details of SAP

S. No.	Types of major Activity conducted- <i>Swachhta Pakhwada</i> , Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	<i>Swachhta pakhwada</i>	1	301

22. Please include any other important and relevant information which has not been reflected above

A. Celebration of *Prakram Diwas*

Netaji Subhash Chandra Bose jayanti was celebrated as *Prakram Diwas* at Krishi Vigyan Kendra, Porbandar on 23rd January, 2021; as per guideline of ICAR. Documentary on life of Netaji Subhash Chandra Bose was presented at KVK. Staff member of KVK & COA, Porbandar were participated in this occasion. Total 21 (20-male & 1-female) participants remained present.

B. Celebration of Republic Day

The Republic Day was celebrated at Krishi Vigyan Kendra, Porbandar. The staff member of KVK & COA remained present on this occasion. Dr.R.K.Odedra, Senior Scientist & Head unfurl the tricolor flag with salute to our national flag & sang our national anthem. On this occasion, Dr.J.V.Chovatia, Asst. Professor, COA, Khapat was honored by giving a shawl as he received best thesis award in this year. Total 17 members remained present in this occasion.

C. Paying tribute to Mahatma Gandhi on his *Nirvan Diwas*

The staff of Krishi Vigyan Kendra, Porbandar & COA, Porbandar were paying tribute to Mahatma Gandhiji by laying flowers on his nirvana diwas 30th January, 2021. Total 18 staff members remained present.

D. Celebration of *Krush Mahila Divas*

International Women's Day is a global holiday celebrated annually on March 8th to commemorate the cultural, political, and socioeconomic achievements of women. On this day ***Krush Mahila Divas*** was celebrated at Krishi Vigyan Kendra, Khapat (Porbandar). Farm women were participated in this event. Lectures were delivered on subjects like awareness about women safety, women's role in agriculture etc. Activities like healthy recipes competition; debate on women empowerment; visit to Kitchen Garden were carried out. Total 93 participants (87-women & 6 –men) were remained present.

E. Celebration of World Water Day

World Water Day is an annual United Nations observance day held on 22nd March that highlights the importance of fresh water. The same was celebrated at Krishi Vigyan Kendra, Khapat (Porbandar). Total 20 participants were remained present on this occasion.

F. Celebration of Honey Bee Day

“Honey Bee Day” was celebrated by Krishi Vigyan Kendra, Porbandar on 20th May, 2021. A webinar was organized on this occasion. Lecture delivered by V.M.Savaliya on importance of honey bees in agriculture; their social behavior and how honey bee affects all over production of agriculture. A lecture on its rearing was also delivered on this programme. Total 69 participants (54 – Male and 15 – Female) were joined the webinar.

G. Webinar on Balanced use of Fertilizer

A webinar on **“Balanced Use of Fertilizer”** was organized at Krishi Vigyan Kendra, Porbandar on 18th June, 2021. Lecture delivered by Dr. H.N.Der on importance of soil, how chemical fertilizers were deteriorate the soil if use haphazardly and balanced use of fertilizer. Total 36 participants (27-Male and 9-Female) were joined the webinar.

H. Celebration of International Day of Yoga

“International Day of Yoga” was celebrated at Krishi Vigyan Kendra, Porbandar on 21st June, 2021. The staff members of Krishi Vigyan Kendra; College of Agriculture & Cotton Research Station were participated in this event. Total 13 members were participated in this event.

I. Celebration of Nation Fish Farmer Day

“Nation Fish Farmer Day” was celebrated at Krishi Vigyan Kendra, Porbandar on 10th July, 2021. An e-*goshthi* was organized by KVK on this occasion of National Fish Farmer Day. Total 17 farmers were participated in the programme.

J. Celebration of ICAR Foundation Day & Tree Plantation Drive

“ICAR Foundation Day” was celebrated by Krishi Vigyan Kendra, Porbandar on 16th July, 2021. A webinar was organized on this occasion. Lecture delivered by Dr. H.N.Der on glimpse of ICAR, its structure & working in the field of agriculture. A tree plantation drive was also carried out by staff of KVK & COA, Porbandar. Total 53 participants (45 – Male and 8 – Female) were joined the webinar. Total 25 staff members involved in tree plantation drive & 50 trees was planted at KVK campus.

K. Celebration of Krushi Mahila Divas

“Krushi Mahila Divas” was organized on behalf of *Mahila Shashaktikaran Pakhvada* on 6th August, 2021 at KVK, Porbandar. The day was celebrated by inauguration session followed by trainings on importance & role of farmwomen in Indian Agriculture; women empowerment etc. Total 76 (73-farmwomen and 3-staff member) remained present in this occasion.

L. Celebration of Independence Day

The “75th Independence Day” was celebrated at Krishi Vigyan Kendra, Porbandar. The staff member of KVK, COA, Cotton Research Station & students of COA remained present on this occasion. Dr. R.K.Odedra, Retired Senior Scientist & Head unfurls the tricolor flag with salute to our national flag & sang our national anthem. Students of COA gave performance on various patriotism themes. Total 66 members (55 – students and 11- staff member) were attained the celebration & honour their respect to the tricolor.

M. Celebration of Parthenium Awareness Week

“Parthenium Awareness Week” was celebrated at Krishi Vigyan Kendra, Porbandar from 16th to 22nd August, 2021. Activities related to awareness about *parthenium*, a ‘noxious weed’ were carried out on different days of the week. Activities like awareness training on *parthenium*; uprooting of *parthenium* from campus; chemical control of *parthenium* etc. were carried out. Total 51 farmers (41-male and 10-female) as well as staff members were participated during whole activities.

N. Celebration of Nutrition & Food day for farmers

“Nutrition & Food day for Farmers” was celebrated at Krishi Vigyan Kendra, Porbandar on behalf of *Azadi ka Amrut Mahotsav* on 26th August, 2021. A training & e-*goshthi* were organized on importance of nutritious food production and consumption on this day. Total 123 farmers benefited by this programme.

O. Celebration of Poshan Maah

The whole September was celebrated as “*Poshan Maah*”. Different activities related to *Poshan Abhiyan* of Govt. of India were carried out at Krishi Vigyan Kendra, Porbandar. A live webcast of speech of Hon’ble Agriculture Minister Shri Narendra Singh Tomar was also organized at campus. Awareness about balanced nutrition in health; development of nutritional garden at KVK campus; off campus training of women about nutrition etc. were carried out. A mega event *Poshan Vatika & Vruksharopan Abhiyan* was carried out on 17th September, 2021. Seeds of vegetables were also distributed to them in association with IFFCO. 100 seed packets & 800 seedlings of fruit and forest trees were distributed to farmwomen. 149 participants (53 – male & 96 - farmwomen) were participated in this event. Total 223 participants were involved in whole activities carried throughout month.

P. Celebration of Technology Week

A Technology week was celebrated on groundnut in current year during 27th September to 1st October, 2021 with a view to provide an opportunity to show the worth of the technologies through seminars and live demonstration

and to boost up technology transfer. During the week, different improved technologies of groundnut right from the land preparation and sowing to harvesting and postharvest technologies up to marketing were demonstrated live or discussed thoroughly in the seminars. During the week total 315 farmers (235 farmers + 80 farm women) have participated in seminar and discussion. Dr. G.R.Gohil & Dr. P.J.Gohil from DEE office, JAU, Junagadh also remained present in the inauguration session on 27th September and interacted with participants.

Q. Live Webcast of PM interaction with Farmers-Scientists

Live webcast of Hon'ble PM Shri Narendra Modi interact with Scientists & Farmers was organized at KVK, Porbandar on 28th September, 2021. Hon'ble PM released 35 climate resilience varieties. A lecture cum awareness session was also organized on climate resilience agriculture for farmers by V.M.Savaliya, Scientist, KVK, Porbandar. Total 94 farmers were remained present in this programme.

R. Celebration of Mahila Kisan Divas

“*Mahila Kisan Divas*” was celebrated at village Amardad by Krishi Vigyan Kendra, Porbandar on 15th October, 2021. Debate competition on nutritional diet was carried out amongst participants. Training on nutritional diet for farmwomen and girls was also taken. Total 25 farmwomen were participated in this programme.

S. Celebration of World Food Day

“*World Food Day*” was celebrated at Krishi Vigyan Kendra, Porbandar on 16th October, 2021. Debate competition on nutritional diet was carried out amongst participants. Moreover, an essay competition was also organized amongst participants. Total 24 farmwomen were participated in this programme.

T. Celebration of Swachhta Pakhwada

As per ICAR guidelines, *Swachhta Pakhwada* was celebrated from 2nd to 31st October, 2021 at Krishi Vigyan Kendra, Porbandar. In this event, daily *Swachhta* related activities were done on different aspects. Staff of Krishi Vigyan Kendra & College of Agriculture, Porbandar was participated in these activities. On this event various activities like display banner of *Swachhta Pakhwada* at public place in Porbandar; cleaning of office & its premises; *Swachhta* oath taking etc. were organized. Farmers & farmwomen were aware about *Swachhta* Mission & its importance on every event organized at KVK, Porbandar.

U. Celebration of Rashtriya Ekta Divas

“*Rashtriya Ekta Divas*” was celebrated at Krishi Vigyan Kendra, Porbandar on 31st October, 2021. The day is celebrated to mark the birth anniversary of Sardar Vallabhbhai Patel who had a major role in the political integration of India. An oath taking by staff members of KVK, COA and Cotton Research Station was done on this occasion. Total 13 staff members remained present.

V. Celebration of Constitution Day

The constitution day was celebrated at Krishi Vigyan Kendra, Porbandar on 26th November, 2021. The preamble of our constitution was read by staff of KVK & COA, Porbandar. Total 12 participants were present in this programme.

W. Live Webcast of Hon'ble PM Speech on Natural Farming

Live webcast of Hon'ble PM Shri Narendra Modi's address to nation on Natural Farming was arranged at Krishi Vigyan Kendra, Porbandar on 16th December, 2021. Our PM addresses nation on natural farming in Pre-Vibrant Summit - Gujarat through virtual mode. Farmers were invited for this programme. Students of COA, Porbandar were also invited for this event. Total 187 participants (72 farmers; 103 students and 12 staff members) attended this event.

X. Certificate Distribution Programme for Certificate Course On Pesticide Management

A certificate distribution programme for **Certificate Course on Pesticide Management** was organized at Krishi Vigyan Kendra, Porbandar on 25th December, 2021. Dr. H.M.Gajipara, DEE, JAU, Junagadh; Dr. G.R.Gohil,

Asso. DEE, JAU, Junagadh, Shri Arvindbhai Timbadiya, Chairmen, All India Pesticide Dealer Asso., staff of KVK & COA remained present. Certificates were distributed to 72 trainees. Total 85 participants remained present in this programme.

Y. Activities conducted under Mera Gaun Mera Gaurav (MGMG)

Under MGMG, 10 villages of Porbandar district has been selected for different extension activities. Two teams of KVK, Khapat is working and each team has five villages. The activities conducted are given below.

Sr. No.	Quarter	Visit to village		Meetings/ <i>Gosthis</i> organized	
		No.	Participants	No.	Participants
1	January to March 2021	7	143	7	143
2	April to June 2021	3	46	3	46
3	July to September 2021	3	66	3	66
4	October to December 2021	2	34	2	34

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	62	628	628	1256
Rural youths	1	12	0	12
Extension functionaries	1	1	41	42
Sponsored Training	4	127	100	227
Vocational Training	0	0	0	0
Total	68	768	769	1537

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	10	4	-
Pulses	20	8	-
Cereals	10	4	-
Vegetables	20	6	-
Other crops	35	14	-
Hybrid crops	-	-	-
Total	95	36	-
Livestock & Fisheries	-	-	-
Other enterprises	105	5	-
Total	105	5	-
Grand Total	200	41	-

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	3	3	9
Livestock	1	1	3
Various enterprises			
Total	4	4	12
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	4	4	12

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	509	1973
Other extension activities	76	-
Total	585	1973

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Porbandar	Text only			1				1
	Voice only							
	Voice & Text both							
	Total Messages			1				1
	Total farmers Benefitted			114				114

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	124.88	1603710/-
Planting material (No.)	2720	848000/-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	50	15000
Water	37	1850
Plant	0	0
Total	87	16850

8. HRD and Publications

Sr. No	Category	Number
1	Workshops	3
2	Conferences	
3	Meetings	
4	Trainings for KVK officials	17
5	Visits of KVK officials	
6	Book published	
7	Training Manual	
8	Book chapters	
9	Research papers	1
10	Lead papers	
11	Seminar papers	
12	Extension folder	
13	Proceedings	1
14	Award & recognition	
15	On-going research projects	